

ABSTRACT OF THE DISCLOSURE

A positive electrode active material for a lithium ion secondary battery is a lithium-containing composite oxide represented by the chemical formula: $\text{Li}_a(\text{Co}_{1-x-y}\text{Mg}_x\text{Al}_y)_b\text{M}_z\text{O}_c$, where M is at least one element selected from the group consisting of Na and K, and the values a, b, c, x, y and z respectively satisfy $0 \leq a \leq 1.05$, $0.005 \leq x \leq 0.15$, $0.0001 \leq y \leq 0.01$, $0.0002 \leq z \leq 0.008$, $0.85 \leq b \leq 1.1$ and $1.8 \leq c \leq 2.1$.

This makes it possible to improve a high temperature storage characteristics and safety of the lithium ion secondary battery.